

A

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TREK2 1 MFFLYTDFFLSLVAVPAAAPVVCQPKSATNCQPPAPAPTPTPRLSSRAATVVARMECTSSQ
TREK1 1 - - - - - MAAAPDLDLPKSAQNS - - - - - KPRLSFTKPTTVLASRVESDT

TREK2 61 GCLQTVNKKWKTVAIFVVVVLVLTGGLVFRALAEQPFESSQKN TIALEKA EFLRDHV C V S
TREK1 38 - - - - - TINVNKKWKTSTIFLVVVLVLTIGATVFKALEQPHETISQRTTIVLQKQTFISQHS C V N
TRAAK 1 - - - - - MRSTTLLALLALVTLVLSGALVFGALEQPHETISQRTTIVLQKQTFISQHS C V S

TREK2 121 PQELET LIQH A L D A D N A G V S P I G - - - N S S N S S H W D L G S A F F F A G T V I T T I G Y G N I A P S T
TREK1 96 S T E L D E L I Q Q I V A A I N A C I I P L G - - - N T S N O I S H W D L G S A F F F A G T V I T T I G Y G N I A P S T
TRAAK 55 Q K S L E D E L I K L L V E A L C G G A N P E T S W T N S S N S S A W L G S A F F F S G T I I T T I G Y G N I V L H T

TREK2 178 E G G K I F C I L Y A I F G I P L F G F L L A G L G D Q L G T I F G K S I A R V E K V F R K K Q V S K T K I R V I S T I
TREK1 153 E G G K I F C I I Y A L L G I P L F G F L L A G V G D Q L G T I F G K G I A K V E D T F I K W N V S Q T K I R I I S T I
TRAAK 115 D A G R L F C I F Y A L V G I P L F G M L L A G V G D R L G S S L R R G I G H T E A T F L K W H V P P C L V R S L S A V

TREK2 238 L F I L A G C I V F V T T P A V I F K Y I E G W D A L E S I Y F V V V T L T T V G F G D L V A G - G N A C I N Y R E W Y
TREK1 213 L F I L F G C C V L F V A L P A I I F R H I E G W S A L D A I Y F V V T L T T T C F G D Y V A G - G S D - I E Y L D F Y
TRAAK 175 L F L L I G C L L F V L T P T F V F S Y M E S W S K L E A I Y F V T V T L T T V G F G D Y V P G D G T G - - Q N S P A Y

TREK2 297 K P L V W F W I L V G L A Y F A A V L S M I G D W L R V L S K K T K E E V G E I K A H A A E W K A N V T A E F R E T R R
TREK1 271 K P V V W F W I L V G L A Y F A A V L S M I G D W L R V T S K K T K E E V G E F R A H A A E W T A N V T A E F K E T R R
TRAAK 233 Q P L V W F W I L F G L A Y F A S V L T I G N W L R A V S R R T R A E M G C L T A Q A A S W I G T V T A R V T O - R T

TREK2 357 R L S V E I H D K L Q R A A T I R S M E R R R L C L D Q R A H S L D M L S P E K R S V F A A L D T C R F K A S S Q E - -
TREK1 331 R L S V E I Y D K F Q R A T S I K - - - - - R K L S A E L A G N H N Q E L T P C R R T L S V N H L I N E R D V L P P - - -
TRAAK 292 C P S A P P E K E Q P L P S S L P - - A P P A V E P A C R P G S P A P A E K V E T P S P P T A S A L D Y P S E N L

TREK2 415 - S I N N R P N N L R L K G P E Q L N K H G C Q G A S E D N I I N K F G S T S R L T R K N K D L K K T L P E D V Q K I Y
TREK1 384 - - - L L K T E S I Y L N G - - - L T P H C A G E E I A V I E N I K - - - - -
TRAAK 350 A F I D E S S D T Q S E R G - C A L P R A P R G R G P N P S K K P S R P R C P C R L R D K A V P - - - - -

TREK2 474 K T F R N Y S L D E E K K E E E T E K M C N S D N S T A M L T D C I Q Q H A E L E N G M I P T D T K D R E P E N N S L
TREK2 534 L E D R N

Fig. 1

B

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Intron 2: AG/gtgag....~22.4kb....tcctttctttgag/CA
Intron 3: AG/gtacc....~13.2kb....catatttctcaccag/GG
Intron 4: CA/gtgag.....~35kb.....ctttgctcttcctag/AA
Intron 5: AG/gtaag.....~4.1kb.....tttggtgtttttag/CG
Intron 6: AG/gtagg.....~1.8kb.....ctgtctcttgccag/GT

C

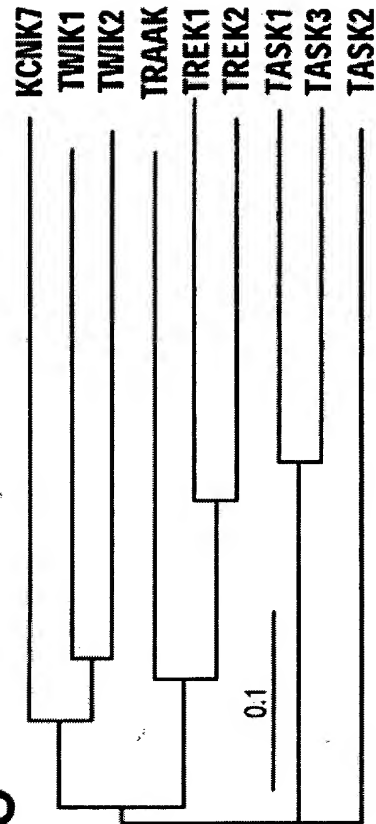
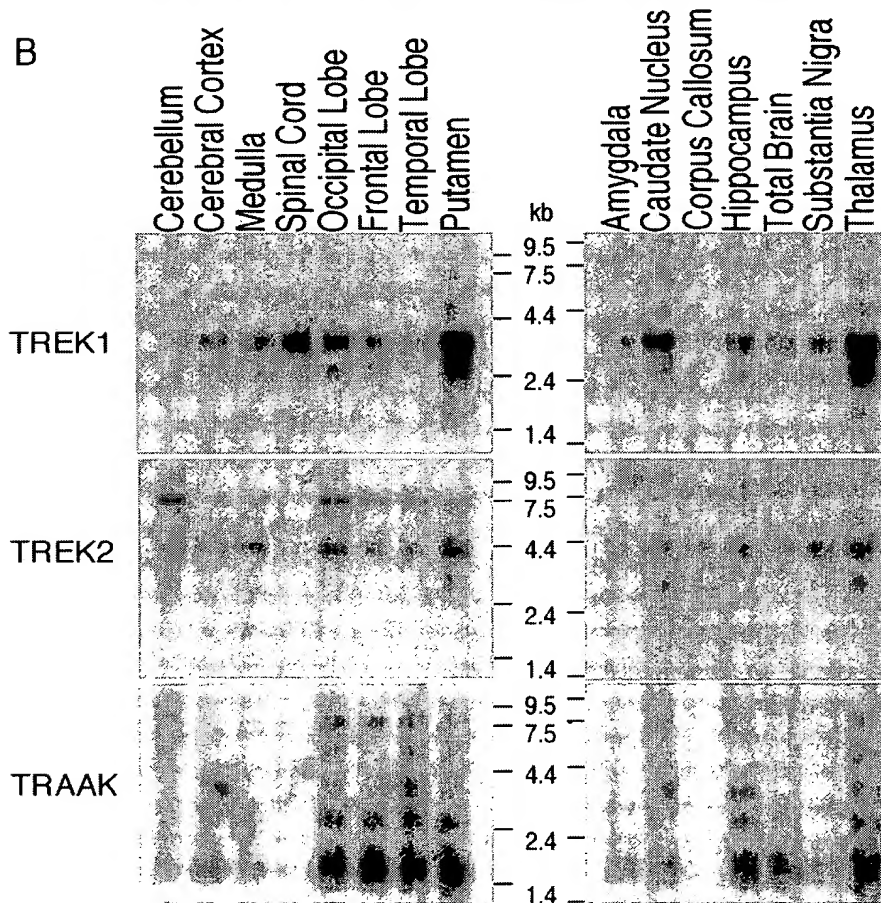
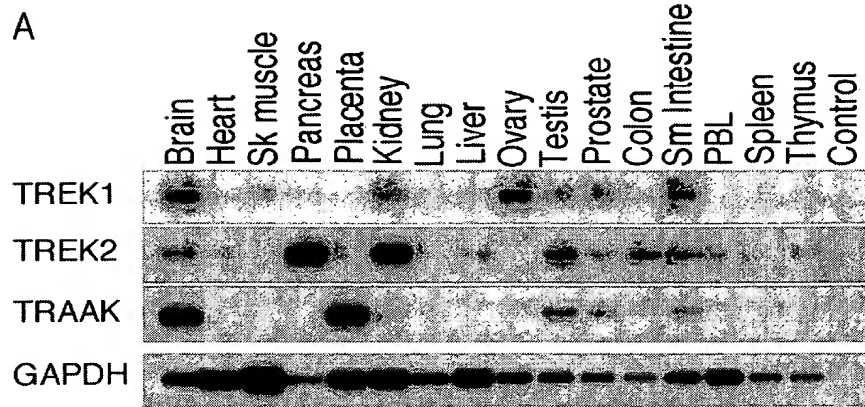


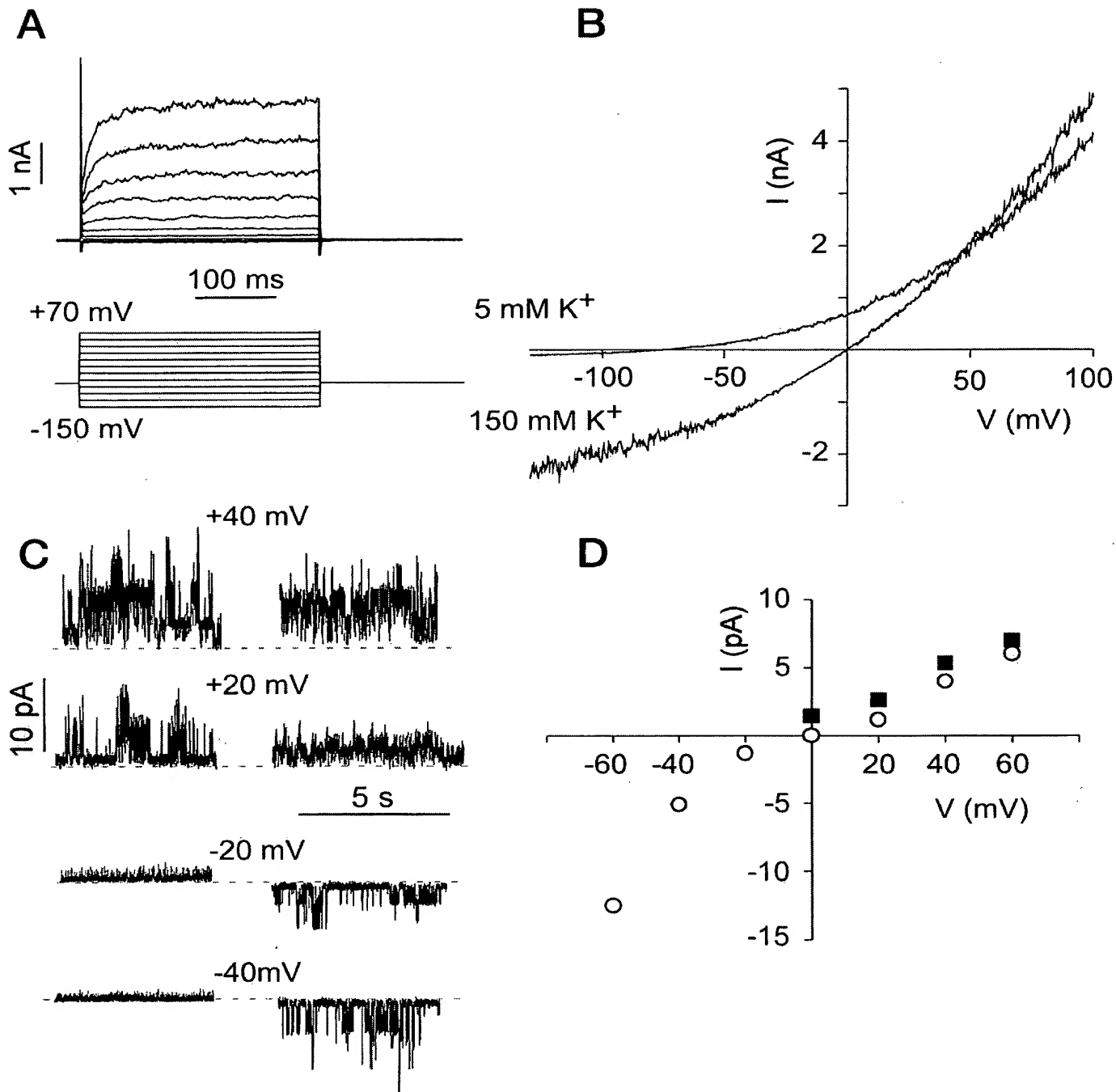
Fig. 2





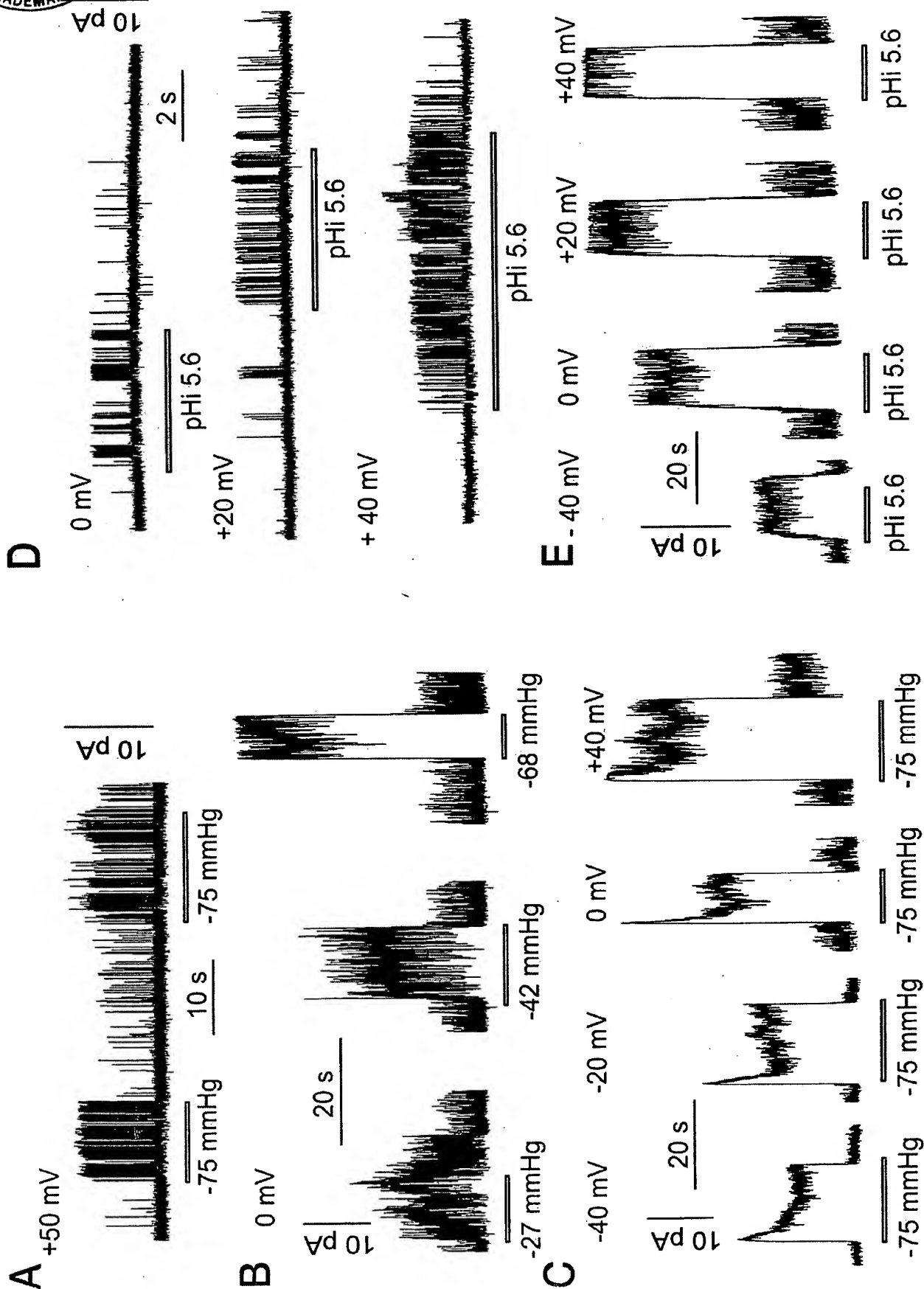
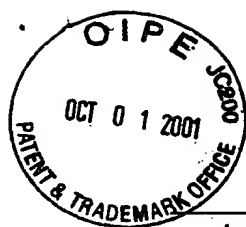
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Fig. 3



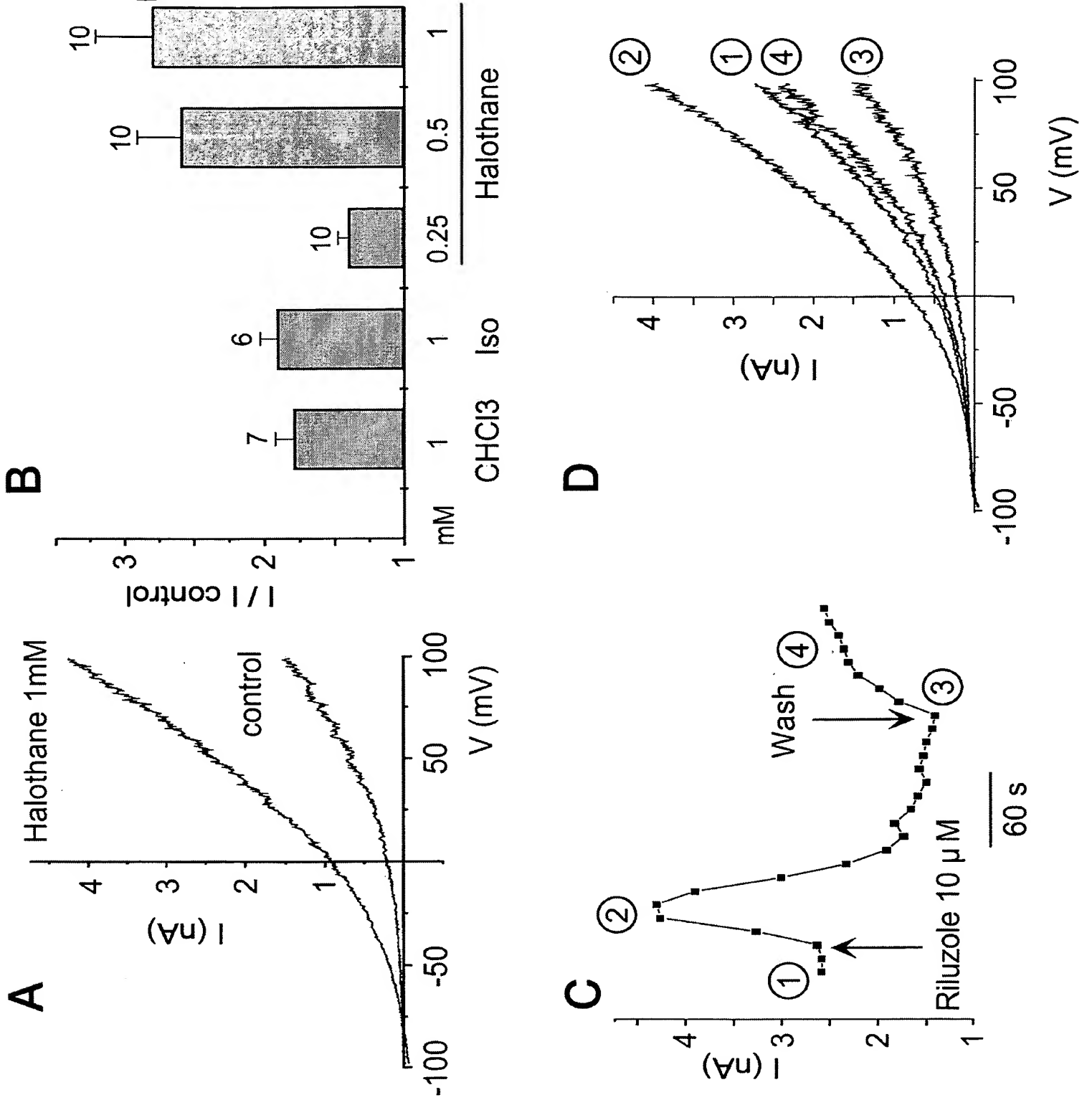
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Fig. 4



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Fig. 5



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Fig. 6

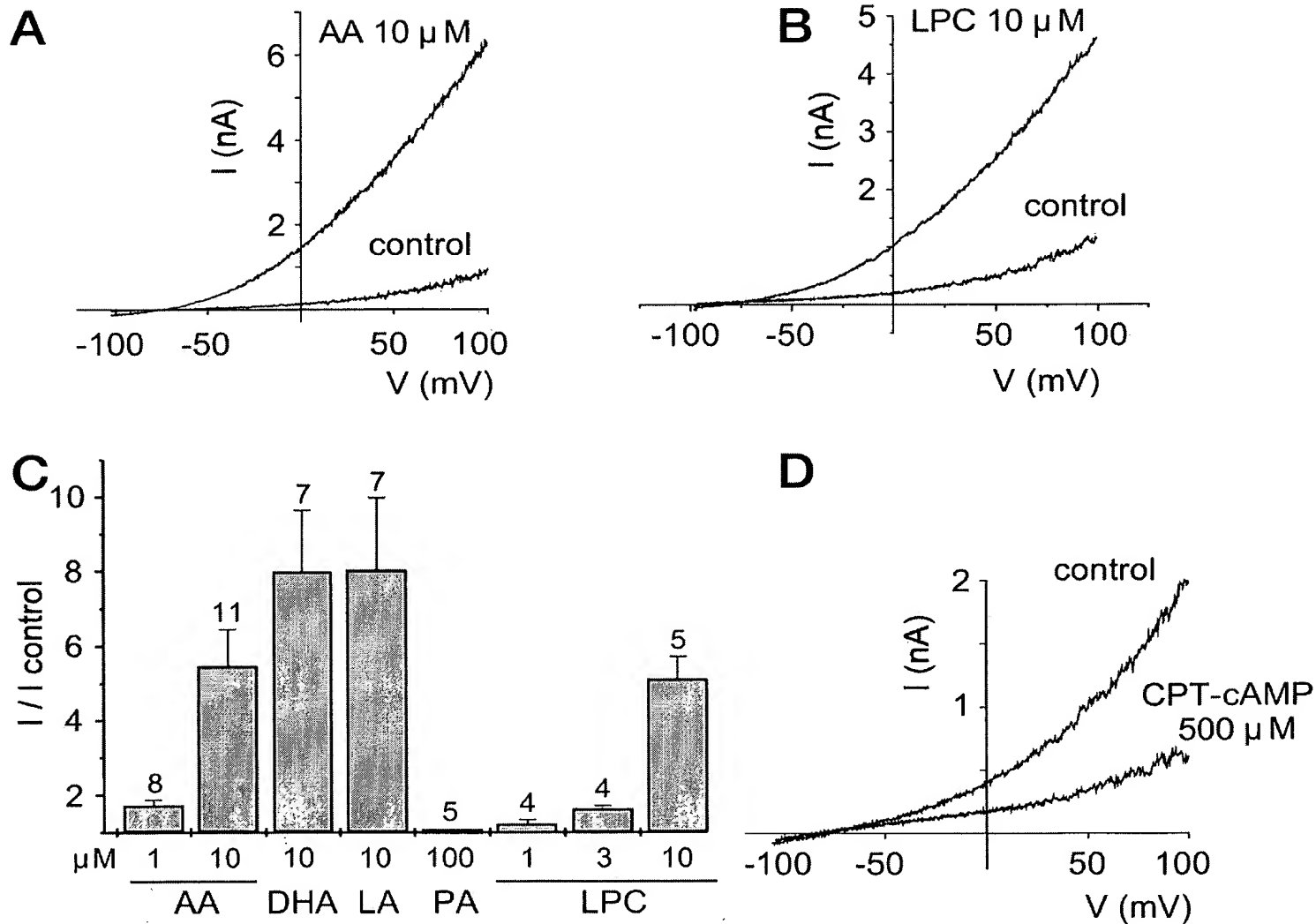


Fig. 7

